**Acetaminophen Assignment**

Use the internet to research the following questions. Make sure to include the url of the website that you have used to find the information directly after **each** question.

1. What is the chemical formula for acetaminophen?
2. Draw the Lewis structure for acetaminophen. You can cut and paste this.
3. Calculate the molar mass for acetaminophen.
4. What trademarked brand name is acetaminophen licenced under and where did the name come from?
5. Who and how was it discovered?
6. What is acetaminophen used for and what side effects does it have?
7. Why would you use it over Aspirin?
8. What does the word synthesis mean? What does medicinal chemistry mean?
9. How is acetaminophen synthesized?
10. Research the Chicago (enter the trademark name from question 4) Murders. What happened and how did it change drug company procedures?

**University of Waterloo: Chemistry**

Go to the following website:
<https://uwaterloo.ca/find-out-more/programs/chemistry>

Use this website as a starting point to answer the following questions.

1. What are the admissions requirements to get into the Chemistry program?
2. Name an interesting job that a co-op student could have?
3. Name an interesting job that you could have once finished a chemistry degree?
4. Click through the following website to see different specializations that the university offers.
<https://uwaterloo.ca/science/current-undergraduate-students/programs>